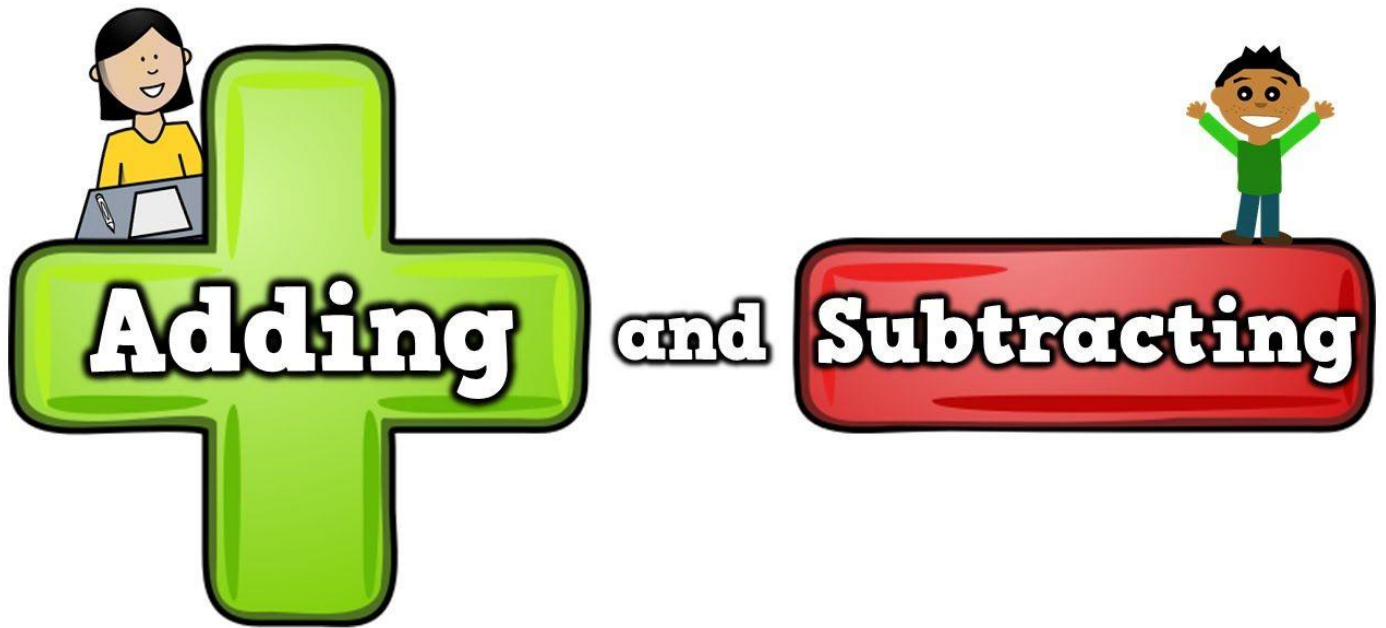


# ADDITION AND SUBTRACTION



This week we will be focusing our attention on Addition and Subtraction. All of your maths activities will be based around this topic. You will have the opportunity to practice skills you have already learnt with your teacher over the year and then use those skills to solve problems and explain your answers.

We hope you enjoy them!

## **Monday 6<sup>TH</sup> July – Addition and subtraction warm up**

Let's start the week off with a little warm up - complete all of the addition and subtraction questions on the next two pages and the challenges.

### **Adding ones to 3-digits**

1.  $136 + 3 =$  \_\_\_\_\_
2.  $212 + 4 =$  \_\_\_\_\_
3.  $381 + 6 =$  \_\_\_\_\_
4.  $494 + 5 =$  \_\_\_\_\_
5.  $533 + 4 =$  \_\_\_\_\_
6.  $620 + 7 =$  \_\_\_\_\_
7.  $725 + 4 =$  \_\_\_\_\_
8.  $952 + 7 =$  \_\_\_\_\_
9.  $165 + 8 =$  \_\_\_\_\_
0.  $224 + 7 =$  \_\_\_\_\_
11.  $388 + 6 =$  \_\_\_\_\_
12.  $478 + 5 =$  \_\_\_\_\_

### **Adding tens to 3-digits**

13.  $564 + 80 =$  \_\_\_\_\_
14.  $675 + 90 =$  \_\_\_\_\_
15.  $761 + 70 =$  \_\_\_\_\_
16.  $964 + 60 =$  \_\_\_\_\_
17.  $102 +$  \_\_\_\_\_  $= 172$
18.  $282 + 60 =$  \_\_\_\_\_
19. \_\_\_\_\_  $+ 30 = 424$
20.  $488 + 40 =$  \_\_\_\_\_
21.  $537 + 90 =$  \_\_\_\_\_
22. \_\_\_\_\_  $+ 30 = 686$
23.  $770 +$  \_\_\_\_\_  $= 850$
24.  $961 + 70 =$  \_\_\_\_\_

### **Challenge!**

Explain how you would use  $7 + 8 = 15$  to calculate  $537 + 8$ .

### Subtracting ones from 3-digits

### Subtracting tens from 3-digits

1.  $166 - 3 =$  \_\_\_\_\_
2.  $295 - 4 =$  \_\_\_\_\_
3.  $307 - 5 =$  \_\_\_\_\_
4.  $489 - 7 =$  \_\_\_\_\_
5.  $578 - 4 =$  \_\_\_\_\_
6.  $636 - 2 =$  \_\_\_\_\_
7.  $794 - 3 =$  \_\_\_\_\_
8.  $959 - 8 =$  \_\_\_\_\_
9.  $145 - 8 =$  \_\_\_\_\_
10.  $213 - 7 =$  \_\_\_\_\_
11.  $383 - 5 =$  \_\_\_\_\_
12.  $491 - 4 =$  \_\_\_\_\_

13.  $537 - 50 =$  \_\_\_\_\_
14.  $612 - 70 =$  \_\_\_\_\_
15.  $727 - 60 =$  \_\_\_\_\_
16.  $933 - 90 =$  \_\_\_\_\_
17.  $134 -$  \_\_\_\_\_  $= 74$
18.  $213 - 80 =$  \_\_\_\_\_
19. \_\_\_\_\_  $- 70 = 276$
20.  $403 - 30 =$  \_\_\_\_\_
21. \_\_\_\_\_  $- 90 = 486$
22.  $619 - 20 =$  \_\_\_\_\_
23.  $717 -$  \_\_\_\_\_  $= 647$
24.  $941 - 50 =$  \_\_\_\_\_

### Challenge!

Explain how you would use  $14 - 8 = 6$  to calculate  $384 - 8$ .

## **Tuesday 7<sup>TH</sup> July – Addition and subtraction (hundreds)**

To start today off, calculate the answers to each question where you will need to add or subtract a hundreds number from a 3-digit number.

### **Adding hundreds to 3-digits**

1.  $163 + 500 =$  \_\_\_\_\_

2.  $345 + 600 =$  \_\_\_\_\_

3.  $582 + 400 =$  \_\_\_\_\_

4.  $273 + 300 =$  \_\_\_\_\_

5.  $561 + 200 =$  \_\_\_\_\_

6.  $170 + 700 =$  \_\_\_\_\_

7.  $207 + 500 =$  \_\_\_\_\_

8.  $719 + 100 =$  \_\_\_\_\_

### **Subtracting hundreds from 3-digits**

9.  $268 - 200 =$  \_\_\_\_\_

10.  $416 - 100 =$  \_\_\_\_\_

11.  $547 - 300 =$  \_\_\_\_\_

12.  $346 - 100 =$  \_\_\_\_\_

13.  $564 - 400 =$  \_\_\_\_\_

14.  $893 - 600 =$  \_\_\_\_\_

15.  $507 - 500 =$  \_\_\_\_\_

16.  $919 - 400 =$  \_\_\_\_\_

### **Challenge**

Take any three digit number. You can subtract 100, 200, 300 or 400 once each, but you must not go below 0.

e.g.  $672 - 100 = 572$ ,  $572 - 300 = 272$ ,  $272 - 200 = 72$ .  
100, 300 and 200 were subtracted to get to 72.

Can you always get to a number between or equal to 100 and 1?

If you use as many subtractions as possible are there any patterns?

**1. Which questions are easy, which are hard?**

$$453 + 10 = 930 - 100 =$$

$$493 + 10 = 910 - 120 =$$

Why are some easy and some hard?

Explain your reasons.

**2. Are these number sentences true or false?**

$$396 + 6 = 412$$

$$504 - 70 = 444$$

$$556 + 150 = 706$$

Explain your answers.

**Wednesday 8<sup>th</sup> July – Column method**

Use the column method to complete the following questions. No carrying over/exchanging is needed in the first set.

$$\begin{array}{r} 534 \\ + 45 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 213 \\ + 62 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 304 \\ + 84 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 672 \\ + 16 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 130 \\ + 56 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 802 \\ + 92 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 529 \\ + 50 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 281 \\ + 17 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 479 \\ - 18 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 337 \\ - 25 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 584 \\ - 61 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 478 \\ - 38 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 748 \\ - 16 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 563 \\ + 12 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 652 \\ - 32 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 569 \\ - 67 \\ \hline \\ \hline \end{array}$$

The next questions will require you to carry over/ exchange. Good luck!

Mrs Brown's Maths

$$\begin{array}{r} 673 \\ + 18 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 457 \\ + 25 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 304 \\ + 69 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 615 \\ + 38 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 149 \\ + 16 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 805 \\ + 85 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 672 \\ + 42 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 581 \\ + 67 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 343 \\ - 18 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 641 \\ - 25 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 472 \\ - 67 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 473 \\ - 38 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 620 \\ - 16 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 364 \\ + 46 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 415 \\ - 33 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 528 \\ - 67 \\ \hline \\ \hline \end{array}$$

Challenge!

See if you can calculate the missing numbers in each calculation!

$$\begin{array}{r} 4 \quad \_ \quad 2 \\ + \quad 15 \\ \hline 467 \\ \hline \end{array}$$

$$\begin{array}{r} \_ \quad 53 \\ + \quad 4 \quad \_ \\ \hline 796 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad \_ \quad 2 \\ + \quad 55 \\ \hline 437 \\ \hline \end{array}$$

$$\begin{array}{r} \_ \quad 47 \\ + \quad 4 \quad \_ \\ \hline 796 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad \_ \quad 7 \\ - \quad 5 \quad \_ \\ \hline 302 \\ \hline \end{array}$$

$$\begin{array}{r} 54 \quad \_ \\ - \quad \_ \quad 2 \\ \hline 515 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad \_ \quad 2 \\ - \quad 3 \quad \_ \\ \hline 220 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \quad \_ \\ - \quad \_ \quad 4 \\ \hline 449 \\ \hline \end{array}$$

**Thursday 9<sup>th</sup> July – Using inverse to check calculations**

Remember that 'inverse' is where we use the opposite function. So if you need to check an addition calculation you can use subtraction to do this.

Calculate the answer to the following calculations and check by using the inverse (addition or subtraction). Choose the best method for you - column method, number line, near doubles etc.

<b>34 23 57</b>	<b>16 59 75</b>	<b>92 45 137</b>
_____ + _____ = _____	_____ + _____ = _____	_____ + _____ = _____
_____ + _____ = _____	_____ + _____ = _____	_____ + _____ = _____
_____ - _____ = _____	_____ - _____ = _____	_____ - _____ = _____
_____ - _____ = _____	_____ - _____ = _____	_____ - _____ = _____
<b>87 240 153</b>	<b>393 240 153</b>	<b>616 240 153</b>
_____ + _____ = _____	_____ + _____ = _____	_____ + _____ = _____
_____ + _____ = _____	_____ + _____ = _____	_____ + _____ = _____
_____ - _____ = _____	_____ - _____ = _____	_____ - _____ = _____
_____ - _____ = _____	_____ - _____ = _____	_____ - _____ = _____

Create two addition and two subtraction calculations from each set of three numbers, writing the full calculations in the given box.

<b>26 97 123</b>	<b>86 134 48</b>	<b>364 213 151</b>
<b>652 589 63</b>	<b>572 801 229</b>	<b>371 912 1283</b>



Challenge Questions:

<p>Find the missing numbers in the addition.</p> $\begin{array}{r} \_4 \\ + 2 \_ \\ \hline 62 \end{array}$	<p>Harry has 357 stickers, John has 263. How many do they have altogether? If Harry gives John 83 stickers, how many do they have each now?</p>	<p>Write down three numbers that add up to make 247. <math>\_ + \_ + \_ = 247</math> Write down a different set of numbers that add up to 247.</p>
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## Friday 10<sup>th</sup> July – Estimating calculations

### Estimated Answers

To answer the following questions decide which multiple of 10 each number is closest to and then add or subtract the numbers. Trying to answer quickly will help you to practise estimating rather than working the answer out.

#### Example

1.  $32 + 59 =$

My estimate:  $\boxed{30} + \boxed{60} = 90$

#### Estimating Addition:

1.  $32 + 59 =$

My estimate:  $\boxed{\phantom{00}} + \boxed{\phantom{00}} = \text{☁}$

2.  $23 + 28 =$

My estimate:  $\boxed{\phantom{00}} + \boxed{\phantom{00}} = \text{☁}$

3.  $51 + 53 =$

My estimate:  $\boxed{\phantom{00}} + \boxed{\phantom{00}} = \text{☁}$

4.  $81 + 33 =$

My estimate:  $\boxed{\phantom{00}} + \boxed{\phantom{00}} = \text{☁}$

5.  $89 + 27 =$

My estimate:  $\boxed{\phantom{00}} + \boxed{\phantom{00}} = \text{☁}$

6.  $59 + 92 =$

My estimate:  $\boxed{\phantom{00}} + \boxed{\phantom{00}} = \text{☁}$

7.  $132 + 19 =$

My estimate:  $\boxed{\phantom{000}} + \boxed{\phantom{000}} = \text{☁}$

8.  $88 + 109 =$

My estimate:  $\boxed{\phantom{000}} + \boxed{\phantom{000}} = \text{☁}$

9.  $127 + 152 =$


My estimate:  $\boxed{\phantom{000}} + \boxed{\phantom{000}} = \text{☁}$

10.  $353 + 281 =$


My estimate:  $\boxed{\phantom{000}} + \boxed{\phantom{000}} = \text{☁}$

**Estimating Subtraction:**


1.  $58 - 32 =$

My estimate:  -  = 


2.  $79 - 22 =$

My estimate:  -  = 


3.  $104 - 51 =$

My estimate:  -  = 


4.  $121 - 33 =$

My estimate:  -  = 


5.  $129 - 27 =$

My estimate:  -  = 


6.  $229 - 92 =$

My estimate:  -  = 


7.  $132 - 17 =$

My estimate:  -  = 


8.  $288 - 109 =$

My estimate:  -  = 

9.  $257 - 152 =$

My estimate:  -  = 

10.  $353 - 281 =$

My estimate:  -  = 

**Challenge Questions:**

1. Colin says 'If I add two numbers together I can check my answer by taking them away afterwards. So to check  $3 + 4$ , I can do  $4 - 3$ . 'Is he right? Explain Colin's thinking.
  
2. There are mistakes in the following calculation. Explain the mistake and then make a correction to find the correct answer.

$$\begin{array}{r} 782 \\ -435 \\ \hline 353 \end{array}$$

3. Molly went swimming every day for 5 days. She swam 80 lengths during the 5 days. Each day she swam 4 less lengths than the day before, how many lengths did she swim each day?
  
4. The answer to the addition is 201. All the digits used are either 1 or 9. Fill in the gaps.  
 $201 = \_ \_ + \_ \_ + \_ \_$   
Can this be done more than one way? Convince me.

5. Hannah has baked 45 cakes for a bun sale. She sells 18 cakes. How many does she have left? Double check your answer by using an addition.